# Introduction

# Description

You will design a system for flight reservations of an airplane company. There are planes, cities, airports, flights, crew, customers, sales/reservations, staff, etc. You should consider flight history of customers to give promotions, connecting flights, cancelled flights and different classes within a flight (business, economy). Customers also should be able to cancel their flights but they must be penalized. Reservations done by customers have to be cancelled after a certain time. Moreover, customers should be provided to buy extra luggage with additional fee.

Why and How a Databases is going to be used as a part of to that project?

-> Furkan

Requirements

**Functional**

**Customers**

* **Can make reservations**
* **View scheduled flights including connection details**
* **View prices**
* **Get promotions and sales**
* **Make payments**
* **Choose seat, class, meal**
* **Cancel reservations**
* **Buy extra luggage**
* **Cancel extra luggage**
* **View flight details (Delay info)**

**Manager**

* **Create, cancel flights**
* **Register new planes, remove existing**
* **Send for repair**
* **Assign crew**
* **Remove and take crew**
* **Fire/Hire stuff**
* **Set prices**
* **Register/delete airports**
* **Staff info adjustment**
* **View reservations**
* **Cancel reservations**
* **Make reservations**
* **Sell extra luggage**
* **Cancel extra luggage**
* **Register/Delete routes**
* **Give promotions**
* **Penalize customers**

**Salesperson**

* **View scheduled flights including connection details,**
* **View reservations,**
* **Make reservations,**
* **View prices,**
* **Sell tickets,**
* **Apply promotion,**
* **Choose seat, class, meal,**
* **Cancel reservations,**
* **Refund**
* **Sell extra luggage,**
* **Cancel extra luggage,**

**Check-in guy**

* **Register the luggage**
* **Assign seats**
* **Cancel reservation**
* **View flight info**

**Non-Functional**

* **Accurate and quick (response time will be less than 1 sec.)**
* **Does not overwrite the data**
* **Secure**
* **User friendly**
* **Scalable**
* **No data loss**

**Pseudo**

* **MySql\*\* will be used**
* **Web site can be created with HTML, JavaScript, CSS, HTML 5, Php technologies. (Angular JS, Bootstrap)**

**Limitations**

* **The plane type will be determined according to the flight time.**
* **An airport will be added after a city is added.**
* **A route can be added after an airport is added.**
* **A route cannot be deleted if there is a flight**
* **An airport cannot be deleted if there is a route.**